

ABSTRACT OF THE DISCLOSURE

Two voltage regulators are provided with the input for the second voltage regulator series
connected to the output of the first voltage regulator, and the first voltage regulator
5 powering a first circuit as well as the second voltage regulator. The second voltage
regulator powers another circuit at a lower voltage than the first circuit so that when the
first circuit does not require a high voltage, the output voltage of the first voltage
regulator is reduced, and, therefore, the input voltage to the second voltage regulator is
reduced, decreasing the voltage drop across, and the power dissipated in, the second
10 voltage regulator.